

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number  
**WO 2005/082317 A1**

(51) International Patent Classification<sup>7</sup>: **A61J 1/16**,  
A61M 1/02, F25D 25/02

(21) International Application Number:  
PCT/SE2005/000263

(22) International Filing Date: 25 February 2005 (25.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0400448-7 26 February 2004 (26.02.2004) SE

(71) Applicant (for all designated States except US): **INGEN-  
JÖRSFIRMAN PER-OSKAR PERSSON AB [SE/SE];**  
Tegnérsgatan 5, S-254 40 Helsingborg (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PERSSON, Per-Os-  
kar [SE/SE];** Tegnérsgatan 5, S-254 40 Helsingborg (SE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

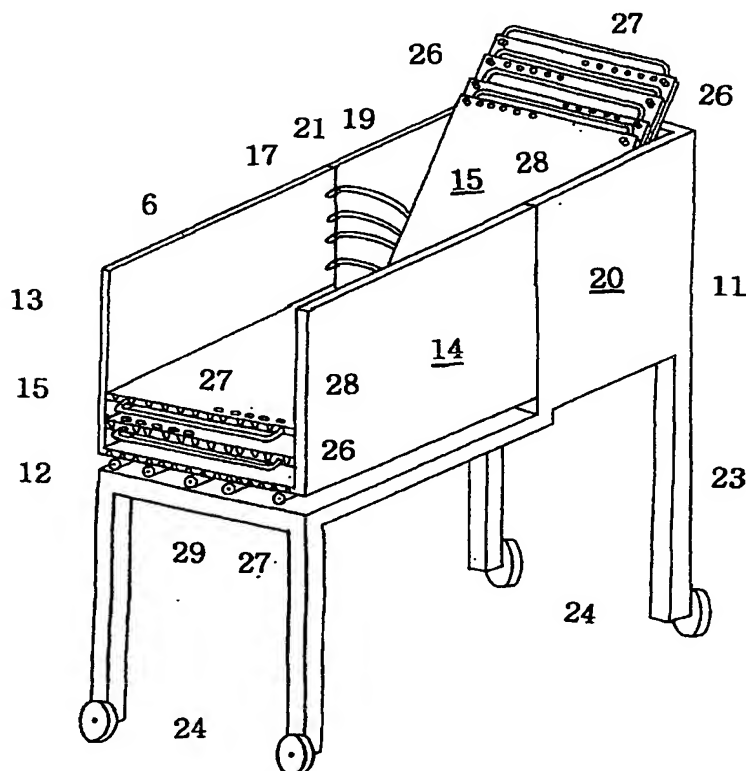
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

[Continued on next page]

(54) Title: CASSETTE AND APPARATUS FOR LIQUID FREEZING



(57) Abstract: A cassette for use in freezing a liquid contained in a plurality of liquid receptacles (25) comprises a bottom plate (12) for supporting a number of the liquid receptacles (25) in a layer, a number of intermediate plates (15) having essentially the same dimensions as the bottom plate (12) for placing on a layer of the liquid receptacles (25) and supporting a further layer of the liquid receptacles (25), and two opposite side walls (13, 14) being rigidly connected to the bottom plate (12) for constituting a U-form therewith, so that each intermediate plate (15) when placed on a layer of the liquid receptacles (25) will be fixed laterally in relation to the side walls (13, 14). A freezer for freezing of a liquid contained in a plurality of liquid receptacles (25) comprises a freezing tunnel (5), said cassette, and a cassette holder (11) having a stand, (23) for supporting the cassette (6) and a number of the intermediate plates (15) separated from the cassette (6), the cassette holder (11) being mobile for movement from a station for loading of the cassette (6) with the liquid receptacles (25) and the intermediate plates (15) to the freezing tunnel (5) for inserting the loaded cassette (6) therein.



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*